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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/760,148
				Confirmation Number	7188
				Filing Date	January 16, 2004
				First Named Inventor	Alexey L. Margolin et al.
				Art Unit	1651
				Examiner Name	David M. Naff
Sheet	1	of	2	Attorney Docket Number	VPI/96-14 CON 2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
GM		4,373,023	2/8/83	Langer et al.	
GM		4,579,779	4/1/86	S. Ohno	
GM		4,606,909	8/19/86	Bechgaard et al.	
GM		4,760,025	7/26/88	Estell et al.	
GM		5,066,490	11/19/91	Neville et al.	
GM		5,120,650	6/9/92	K. Visuri	
GM		5,286,404	2/15/94	Eriksen et al.	
GM		5,385,959	1/31/95	Tsaur et al.	
GM		5,500,223	3/19/96	Behan et al.	
GM		5,508,164	4/16/96	Kausch et al.	
GM		5,569,467	10/29/96	J.M. Ruiz	
GM		5,593,697	1/14/97	Barr et al.	
GM		5,603,956	2/18/97	Mateescu et al.	
GM		5,618,710	4/8/97	Navia et al.	
GM		6,140,475	10/31/00	Margolin et al.	



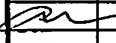

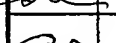


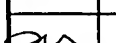
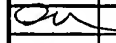

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Country	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO 89/06279	7/13/89	PCT		
		WO 92/02617	2/20/92	PCT		X
		WO 97/44445	11/27/97	PCT		X
		WO 98/13119	4/2/98	OCT		X
		EP 0 341 503	11/15/89	EPO		X

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
GM		A. Dyer et al. "A thermal investigation of the stability of crystalline cross-linked carboxypeptidase A," <i>Thermochimica Acta</i> , vol. 8, pp. 455-464 (1974).	
GM		D.J. Haas, "Preliminary studies on the denaturation of cross-linked lysozyme crystals," <i>Biophysical Journal</i> , vol. 8, pp. 549-555 (1968).	
GM		P.J. Kasvinsky et al. "Activity of glycogen phosphorylase in the crystalline state," <i>The Journal of Biological Chemistry</i> , vol. 251, pp. 6852-6859 (1976).	

Examiner Signature		Date Considered	7/2/05
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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
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				Examiner Name	David M. Naff
Sheet	2	of	2	Attorney Docket Number	VPI/96-14 CON 2

	J.J. Lalonde et al., "Cross-linked crystals of candida rugosa lipase: highly efficient catalysts for the resolution of chiral esters," <u>Journal of the American Chemical Society</u> , vol. 117, p. 6845-6852 (1995).	
	K.M. Lee, et al. "Crosslinked crystalline horse liver alcohol dehydrogenase as a redox catalyst: activity and stability toward organic solvent," <u>Bioorganic Chemistry</u> , vol. 14, pp. 202-210 (1986).	
	A. L. Margolin, "Novel crystalline catalysts," <u>TIBTECH</u> vol. 14, pp. 223-230 (1996).	
	N.L. St. Clair et al. "Crosslinked enzyme crystals as robust biocatalysts," <u>Journal of the American Chemical Society</u> , vol. 114, pp. 7314-7316 (1992).	
	E. Tuchsén et al. "Kinetic properties of subtilisin type carlsberg in the crystalline state," <u>Carlsberg Research Communications</u> , vol. 42, pp. 407-420 (1977).	
	K. Xu et al., "pH control of the catalytic activity of cross-linked enzyme crystals in organic solvents," <u>Journal of the American Chemical Society</u> , vol. 118, pp. 9815-9819 (1996).	
	A. Yonath et al. "Crystallographic studies of protein denaturation and renaturation," <u>Biochemistry</u> , vol. 16, pp. 413-417 (1977).	
	V.P. Torchilin et al. "Principles of enzyme stabilization. V. Possibility of enzyme self-stabilization under the action of potentially reversible intramolecular cross-linkages of different length," <u>Biochimica et Biophysica Acta</u> , vol. 568, pp. 1-10 (1979).	
	Derwent Abstract 88-061232 of Japanese Patent Application 63017691, published September 1988.	
	Fluka Catalogue, "Reagents for protein modification", Chapter Crosslinkers, pp. 61-67 (1986).	

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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